

RAW SEQUENCE LISTING

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Application Serial Number: 10/556,904
Source: PLT/10
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/556,904

DATE: 11/25/2005

TIME: 12:04:16

Input Set : A:\PA038WO_SEQ_listing.ST25.txt
 Output Set: N:\CRF4\11252005\J556904.raw

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3 <110> APPLICANT: Cytos Biotechnology AG
4   Bachmann, Martin F
5   Gatto, Dominique
7 <120> TITLE OF INVENTION: SELECTION OF B CELLS WITH SPECIFICITY OF INTEREST: METHOD OF
8   PREPARATION AND USE
10 <130> FILE REFERENCE: C62780PC
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/556,904
C--> 12 <141> CURRENT FILING DATE: 2005-11-15
12 <150> PRIOR APPLICATION NUMBER: US 60/470,443
13 <151> PRIOR FILING DATE: 2003-05-15
15 <160> NUMBER OF SEQ ID NOS: 85
17 <170> SOFTWARE: PatentIn version 3.2
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 132
21 <212> TYPE: PRT
22 <213> ORGANISM: Bacteriophage Q beta
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30 Gln Thr Leu Val Leu Asn Pro Arg Gly Val Asn Pro Thr Asn Gly Val
31           20          25          30
34 Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg Val
35           35          40          45
38 Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys Val
39           50          55          60
42 Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser Cys
43 65           70          75          80
46 Asp Pro Ser Val Thr Arg Gln Ala Tyr Ala Asp Val Thr Phe Ser Phe
47           85          90          95
50 Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu Leu
51           100         105         110
54 Ala Ala Leu Leu Ala Ser Pro Leu Leu Ile Asp Ala Ile Asp Gln Leu
55           115         120         125
58 Asn Pro Ala Tyr
59           130
62 <210> SEQ ID NO: 2
63 <211> LENGTH: 329
64 <212> TYPE: PRT
65 <213> ORGANISM: Bacteriophage Q beta
67 <400> SEQUENCE: 2
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70 1           5           10          15
73 Lys Gln Thr Leu Val Leu Asn Pro Arg Gly Val Asn Pro Thr Asn Gly,

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74	20	25	30
77	Val Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg		
78	35	40	45
81	Val Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys		
82	50	55	60
85	Val Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser		
86	65	70	75
89	Cys Asp Pro Ser Val Thr Arg Gln Ala Tyr Ala Asp Val Thr Phe Ser		
90	85	90	95
93	Phe Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu		
94	100	105	110
97	Leu Ala Ala Leu Leu Ala Ser Pro Leu Leu Ile Asp Ala Ile Asp Gln		
98	115	120	125
101	Leu Asn Pro Ala Tyr Trp Thr Leu Leu Ile Ala Gly Gly Ser Gly		
102	130	135	140
105	Ser Lys Pro Asp Pro Val Ile Pro Asp Pro Pro Ile Asp Pro Pro Pro		
106	145	150	155
109	Gly Thr Gly Lys Tyr Thr Cys Pro Phe Ala Ile Trp Ser Leu Glu Glu		
110	165	170	175
113	Val Tyr Glu Pro Pro Thr Lys Asn Arg Pro Trp Pro Ile Tyr Asn Ala		
114	180	185	190
117	Val Glu Leu Gln Pro Arg Glu Phe Asp Val Ala Leu Lys Asp Leu Leu		
118	195	200	205
121	Gly Asn Thr Lys Trp Arg Asp Trp Asp Ser Arg Leu Ser Tyr Thr Thr		
122	210	215	220
125	Phe Arg Gly Cys Arg Gly Asn Gly Tyr Ile Asp Leu Asp Ala Thr Tyr		
126	225	230	235
129	Leu Ala Thr Asp Gln Ala Met Arg Asp Gln Lys Tyr Asp Ile Arg Glu		
130	245	250	255
133	Gly Lys Lys Pro Gly Ala Phe Gly Asn Ile Glu Arg Phe Ile Tyr Leu		
134	260	265	270
137	Lys Ser Ile Asn Ala Tyr Cys Ser Leu Ser Asp Ile Ala Ala Tyr His		
138	275	280	285
141	Ala Asp Gly Val Ile Val Gly Phe Trp Arg Asp Pro Ser Ser Gly Gly		
142	290	295	300
145	Ala Ile Pro Phe Asp Phe Thr Lys Phe Asp Lys Thr Lys Cys Pro Ile		
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149	Gln Ala Val Ile Val Val Pro Arg Ala		
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164	Gly Asp Val Lys Val Ala Pro Ser Asn Phe Ala Asn Gly Val Ala Glu		
165	20	25	30
168	Trp Ile Ser Ser Asn Ser Arg Ser Gln Ala Tyr Lys Val Thr Cys Ser		

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169      35          40          45
172 Val Arg Gln Ser Ser Ala Asn Asn Arg Lys Tyr Thr Val Lys Val Glu
173      50          55          60
176 Val Pro Lys Val Ala Thr Gln Val Gln Gly Gly Val Glu Leu Pro Val
177 65      70          75          80
180 Ala Ala Trp Arg Ser Tyr Met Asn Met Glu Leu Thr Ile Pro Val Phe
181      85          90          95
184 Ala Thr Asn Asp Asp Cys Ala Leu Ile Val Lys Ala Leu Gln Gly Thr
185      100         105         110
188 Phe Lys Thr Gly Asn Pro Ile Ala Thr Ala Ile Ala Ala Asn Ser Gly
189      115         120         125
192 Ile Tyr
193      130
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198 <212> TYPE: PRT
199 <213> ORGANISM: Bacteriophage GA
201 <400> SEQUENCE: 4
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208      20         25          30
211 Leu Ser Asn Asn Ser Arg Ser Gln Ala Tyr Arg Val Thr Ala Ser Tyr
212      35         40          45
215 Arg Ala Ser Gly Ala Asp Lys Arg Lys Tyr Ala Ile Lys Leu Glu Val
216      50         55          60
219 Pro Lys Ile Val Thr Gln Val Val Asn Gly Val Glu Leu Pro Gly Ser
220 65      70          75          80
223 Ala Trp Lys Ala Tyr Ala Ser Ile Asp Leu Thr Ile Pro Ile Phe Ala
224      85         90          95
227 Ala Thr Asp Asp Val Thr Val Ile Ser Lys Ser Leu Ala Gly Leu Phe
228      100        105         110
231 Lys Val Gly Asn Pro Ile Ala Glu Ala Ile Ser Ser Gln Ser Gly Phe
232      115        120         125
235 Tyr Ala
236      130
239 <210> SEQ ID NO: 5
240 <211> LENGTH: 128
241 <212> TYPE: PRT
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244 <400> SEQUENCE: 5
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250 Thr Glu Ile Gln Ser Thr Ala Asp Arg Gln Ile Phe Glu Glu Lys Val
251      20         25          30
254 Gly Pro Leu Val Gly Arg Leu Arg Leu Thr Ala Ser Leu Arg Gln Asn
255      35         40          45
258 Gly Ala Lys Thr Ala Tyr Arg Val Asn Leu Lys Leu Asp Gln Ala Asp
259      50         55          60

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262 Val Val Asp Cys Ser Thr Ser Val Cys Gly Glu Leu Pro Lys Val Arg
 263 65 70 75 80
 266 Tyr Thr Gln Val Trp Ser His Asp Val Thr Ile Val Ala Asn Ser Thr
 267 85 90 95
 270 Glu Ala Ser Arg Lys Ser Leu Tyr Asp Leu Thr Lys Ser Leu Val Ala
 271 100 105 110
 274 Thr Ser Gln Val Glu Asp Leu Val Val Asn Leu Val Pro Leu Gly Arg
 275 115 120 125
 278 <210> SEQ ID NO: 6
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 280 <212> TYPE: PRT
 281 <213> ORGANISM: Bacteriophage Q-beta
 283 <400> SEQUENCE: 6
 285 Ala Lys Leu Glu Thr Val Thr Leu Gly Asn Ile Gly Arg Asp Gly Lys
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 289 Gln Thr Leu Val Leu Asn Pro Arg Gly Val Asn Pro Thr Asn Gly Val
 290 20 25 30
 293 Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg Val
 294 35 40 45
 297 Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys Val
 298 50 55 60
 301 Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser Cys
 302 65 70 75 80
 305 Asp Pro Ser Val Thr Arg Gln Lys Tyr Ala Asp Val Thr Phe Ser Phe
 306 85 90 95
 309 Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu Leu
 310 100 105 110
 313 Ala Ala Leu Leu Ala Ser Pro Leu Leu Ile Asp Ala Ile Asp Gln Leu
 314 115 120 125
 317 Asn Pro Ala Tyr
 318 130
 321 <210> SEQ ID NO: 7
 322 <211> LENGTH: 132
 323 <212> TYPE: PRT
 324 <213> ORGANISM: Bacteriophage Q-beta
 326 <400> SEQUENCE: 7
 328 Ala Lys Leu Glu Thr Val Thr Leu Gly Lys Ile Gly Lys Asp Gly Lys
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 332 Gln Thr Leu Val Leu Asn Pro Arg Gly Val Asn Pro Thr Asn Gly Val
 333 20 25 30
 336 Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg Val
 337 35 40 45
 340 Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys Val
 341 50 55 60
 344 Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser Cys
 345 65 70 75 80
 348 Asp Pro Ser Val Thr Arg Gln Lys Tyr Ala Asp Val Thr Phe Ser Phe
 349 85 90 95
 352 Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu Leu

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353      100      105      110
356 Ala Ala Leu Leu Ala Ser Pro Leu Leu Ile Asp Ala Ile Asp Gln Leu
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360 Asn Pro Ala Tyr
361      130
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366 <212> TYPE: PRT
367 <213> ORGANISM: Bacteriophage Q-beta
369 <400> SEQUENCE: 8
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376      20      25      30
379 Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg Val
380      35      40      45
383 Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys Val
384      50      55      60
387 Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser Cys
388 65      70      75      80
391 Asp Pro Ser Val Thr Arg Gln Lys Tyr Ala Asp Val Thr Phe Ser Phe
392      85      90      95
395 Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu Leu
396      100     105     110
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403 Asn Pro Ala Tyr
404      130
407 <210> SEQ ID NO: 9
408 <211> LENGTH: 132
409 <212> TYPE: PRT
410 <213> ORGANISM: Bacteriophage Q-beta
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419      20      25      30
422 Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg Val
423      35      40      45
426 Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys Val
427      50      55      60
430 Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser Cys
431 65      70      75      80
434 Asp Pro Ser Val Thr Arg Gln Lys Tyr Ala Asp Val Thr Phe Ser Phe
435      85      90      95
438 Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu Leu
439      100     105     110
442 Ala Ala Leu Leu Ala Ser Pro Leu Leu Ile Asp Ala Ile Asp Gln Leu
443      115     120     125

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:2205 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:80